Job-083

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (Currently Amended) A polyol composition suitable for the preparation of a rigid polyisocyanate-based foam comprising:
- a) a blowing agent comprising formic acid, wherein said formic acid comprising 0.5 to 8 parts per 100 parts by weight of said polyol composition including said formic acid; and
- b) an aromatic polyol comprising an aromatic polyoxyalkylene polyol based on an initiator obtained from the condensation of a phenol with an aldehyde, wherein said aromatic polyoxyalkylene polyol comprising at least 20 weight percent based on total weight of the polyol composition.

containing one or more polyether or polyester polyels and a blowing agent, wherein;

- a) the blowing agent comprises formic-acid; and
- b) the polyol-comprises an aromatic polyoxyalkylene polyol-based on an initiator obtained from the condensation of a phonol with an aldehyde.
- 2) (Original) The polyol composition of Claim 1 which additionally comprises a physical blowing agent.

- 3) (Original) The polyol composition of Claim 2 wherein the physical blowing agent is a hydrocarbon selected from the group consisting of butane, pentane, cyclopentane, hexane, cyclohexane, and heptane, and the isomers thereof.
- (Original) The polyol composition of Claim 2 wherein the physical blowing agent is a C₁-C₄ hydrofluoroalkane or hydrochlorofluoroalkane.
- 5) (Original) The polyol composition of Claim 4 wherein the physical blowing agent is a hydrofluoroalkane selected from the group consisting of difluoromethane, difluoroethane, tetrafluoroethane, pentafluoropropane and hexafluorobutane.
 - 6) (Cancelled)
 - 7) (Cancelled)
- 8) (Currently Amended) The polyol composition of Claim 1, wherein said polyol composition further comprising that further comprises an aromatic polyester polyol.
- (Currently Amended) A multi component system suitable for the preparation of rigid polyisocyanate-based foam comprising:

a first component, said first component being an aromatic polyisocyanate; and

a second component, said second component being a polyol composition as claimed in Claim 1. that comprises as first component an aromatic polyisosyanato, and as second component a polyol composition as claimed in Glaim 1.

- (Original) A process for preparing a polyisocyanate-based foam which comprises bringing together under foam-forming conditions a polyisocyanate with a polyol composition as claimed in Claim 1.
- (Currently Amended) The process of Claim 10, wherein where in the polyisocyanate is present in an amount to provide for an isocyanate reaction index of from about 80 to about 150.
- (Currently Amended) The process of Claim 10, wherein where in the polyisocyanate is present in an amount to provide for an isocyanate reaction index of from about 150 to about 600.
- (Currently Amended) A polyurethane foam obtained by bringing together under foam-forming conditions a polyisocyanate with a polyol composition characterized in that:
- a) the polyisocyanate is present in an mount to provide for an isocyanate reaction index of from 80 to 150; and
- b) the polyol composition comprises (I) (i) formic acid, wherein said formic acid comprising 0.5 to 8 parts per 100 parts by weight of said polyol composition including said formic acid; and

- (ii) an aromatic polyoxyalkylene polyol based on an initiator obtained from the condensation of a phenol with an aldehyde, wherein said aromatic polyoxyalkylene polyol comprising at_least 20 weight percent based on total weight of the polyol composition.
- (Currently Amended) A polyisocyanurate foam obtained by bringing together under foam-forming conditions a polyisocyanate with a polyol composition characterized in that:
- a) the polyisocyanate is present in an mount to provide for an isocyanate reaction index of from 150 to 600; and
- b) the polyol composition comprises (I) (i) formic acid, wherein said formic acid comprising 0.5 to 8 parts per 100 parts by weight of said polyol composition including said formic acid; and (ii) an aromatic polyoxyalkylene polyol based on an initiator obtained from the condensation of a phenol with an aldehyde, wherein said aromatic polyoxyalkylene polyol comprising at least 20 weight percent based on total weight of the polyol composition.
- (Original) A laminate comprising the polyurethane foam of Claim 13 or Claim 14.
- 16) (Currently Amended) A process for preparing a closedcelled polyisocyanurate foam by bringing into contact under foamforming conditions a polyisocyanate with a polyol composition in the presence of a blowing agent mixture wherein the polyol composition comprises an aromatic polyester polyol and an aromatic polyether polyol; and wherein the blowing agent mixture comprises formic acid and a hydrofluoroalkane selected from the group

consisting of tetrafluoroethane, pentafluoropropane, heptafluoropropane and pentafluorobutane, said formic acid comprising 0.5 to 8 parts per 100 parts by weight of said polyol composition including said formic acid, and characterized in that the polyisocyanate is present in an amount to provide for an isocyanate reaction index of from greater than 150 to about 600.

- 17) (Original) The process of Claim 16 wherein water is present in an amount of from 0 to about 2 parts by weight per 100 parts of the combined weight of the polyol composition and blowing agent mixture.
- 18) (Currently Amended) The process of Claim 16 wherein the aromatic polyether polyol comprises being selected from the group consisting of a toluenediamine-initiated polyol, a Mannich base-initiated polyol, a methylene diphenylamine-initiated polyol, a phenol-acetone condensate-initiated polyol, or a phenol-formaldehyde condensate-initiated polyol, and combination thereof.
- celled polyisocyanurate foam by bringing into contact under foamforming conditions a polyisocyanate with a polyol composition in
 the presence of a blowing agent mixture wherein the polyol
 composition comprises an aromatic polyester polyol and an aromatic
 polyether polyol; and wherein the blowing agent mixture comprises
 formic acid and a hydrocarbon selected from the group consisting of
 butane, pentane, cyclopentane, hexane, cyclohexane, and heptane,
 and the isomers thereof, said formic acid comprising 0.5 to 8 parts
 per 100 parts by weight of said polyol composition including said
 formic acid, and characterized in that the polyisocyanate is

present in an amount to provide for an isocyanate reaction index of from greater than 150 to about 600.

- 20) (Currently Amended) The process of either Claims 16 or 19, wherein the polyisocyanate is an aromatic polyisocyanate having on average from 2.8 to 3.2 isocyanate groups per molecule.
- (Currently Amended) A two component foam forming system that comprises comprising:
- a) an aromatic polyisocyanate polyisocyanate having an average of from 2.8 to 3.2 isocyanate groups per molecule; and
- b) a polyol composition that contains (i) an aromatic polyester polyol and an aromatic polyether polyol; and (ii) a blowing agent mixture which comprises formic acid and a hydrofluoroalkane selected from the group consisting of tetrafluoroethane, pentafluoropropane, heptafluoropropane and pentafluorobutane, said formic acid comprising 0.5 to 8 parts per 100 parts by weight of said polyol composition including said formic acid.
- 22) (Currently Amended) A two component foam forming system that comprises comprising:
- a) An aromatic polyisocyanates polyisocyanate having an average of from 2.8 to 3.2 isocyanate groups per molecule; and
- b) A polyol composition that contains: (i) an aromatic polyester polyol and an aromatic polyether polyol; and (ii) a blowing agent mixture which comprises comprising formic acid and a hydrocarbon selected from the group consisting of butane, pentane, cyclopentane, hexane, cyclohexane, and heptane, and the isomers

thereof, wherein said formic acid comprising 0.5 to 8 parts per 100 parts by weight of said polyol composition including said formic acid.